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(71) Applicant (for all designated States except US): **EIFFEL TECHNOLOGIES LIMITED** [AU/AU]; Level 14, 50 Market Street, Melbourne, Victoria 3000 (AU).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **FOSTER, Neil, Russell** [AU/AU]; 9 Golden Grove, Cherrybrook, New South Wales 2126 (AU). **DEGHANI, Fariba** [AU/AU]; 8/83 Dalmeny Avenue, Rosebery, New South Wales 2018 (AU). **COMBES, Gary** [AU/AU]; 11/26 Pearson

Street, Balmain, New South Wales 2041 (AU). **REGTOP, Hubert, Leonardus** [AU/AU]; 18 Murchison Street, Mittagong, New South Wales 2575 (AU).

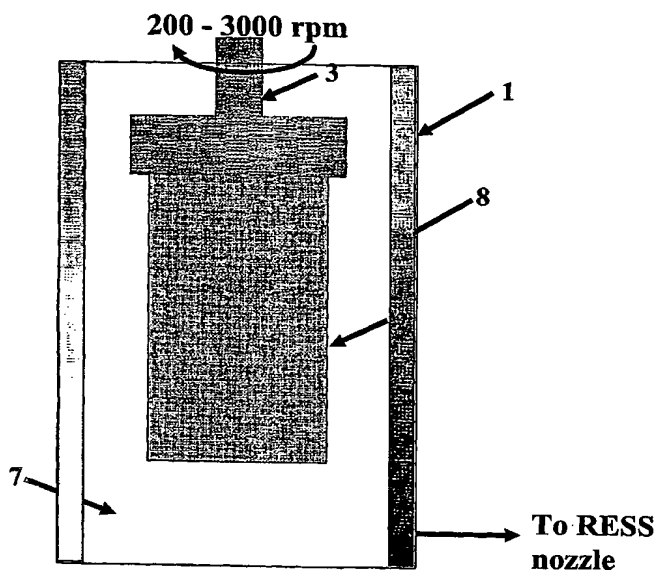
(74) Agent: **FREEHILLS CARTER SMITH BEADLE;** Level 43, 101 Collins Street, Melbourne, Victoria 3000 (AU).

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(54) Title: PARTICLE SYNTHESIS APPARATUS AND METHOD



(57) Abstract: An apparatus for dissolving or suspending a substance in a solvent comprising an outer chamber for containing a dense gas; an inlet for supplying dense gas as a solvent; a porous chamber within the outer chamber for containing a substance for dissolution or suspension with the solvent, the porous chamber having a wall which allows passage of solvent and the substance dissolved or suspended in the solvent, and an outlet for removing solvent and solution and/or dispersion from the outer chamber and a turbulence means for creating turbulence within the porous chamber. A method of dissolving or suspending a substance, and fine particles formed from the resulting solution or suspension are disclosed.

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